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jc945 U.S. PTO

10-26-00

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Enclosed for this application for Non-provisional patent application:

- ☒ This check list
- ☒ A check for filling fee of \$355.
- ☒ A specification & Claims (16 Pages)
- ☒ Patent drawings (14 Pages)
- ☒ A declaration. (2 Pages)
- ☒ A small entity declaration. (1 page)

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Signed: John Vanelli

Inventor John Vanelli

jc825 U.S. PTO
09/696100
10/25/00

**STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27(c))--SMALL BUSINESS CONCERN**

Docket Number (Optional)

Applicant, Patentee, or Identifier: John Vanelli
Application or Patent No.: _____
Filed or Issued: _____
Title: CONSOLIDATED MEDICAL INFORMATION RECORDS

I hereby state that I am

- ☒ the owner of the small business concern identified below:
☐ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF SMALL BUSINESS CONCERN Madison Technology Systems, Inc.

ADDRESS OF SMALL BUSINESS CONCERN 26895 Aliso Creek, Suite 552
Aliso Viejo, CA. 92656

I hereby state that the above identified small business concern qualifies as a small business concern as defined in 13 CFR Part 121 for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time, or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

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- ☒ the specification filed herewith with title as listed above.
☐ the application identified above.
☐ the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern, or organization having rights in the invention must file separate statements as to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

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- ☒ no such person, concern, or organization exists.
☐ each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

NAME OF PERSON SIGNING John Vanelli

TITLE OF PERSON IF OTHER THAN OWNER _____

ADDRESS OF PERSON SIGNING 26895 Aliso Creek, Suite 552 Aliso Viejo, CA. 92656

SIGNATURE John Vanelli DATE 10-25-2000

CONSOLIDATED MEDICAL INFORMATION RECORDS

This application relates to a provisional application filed on 11/29/99 and the

5 Application Number is 60/167.640, entitled Consolidated Medical Information
Records.

Field of the Invention

The present invention relates to a remote network database system that can
provide medical information records to various healthcare providers. More particularly,
10 this invention relates to a secure Internet medical information database system that can
be accessed by an authorized medical provider to view, store, retrieve, disseminate and
receive patient medical data by using patient identification card in conjunction with a
card reader/writer.

Background of the Invention

15 Often patients receive care through various healthcare providers. Not having
access to critical patient data can jeopardize patient health and pose serious liability
threats to healthcare organization. Therefore, it is essential for healthcare organizations
to track patient data to ensure the best possible treatment for their patients.

It is also important for healthcare providers to process /access patient
20 information as quickly as possible with respect to patient medical history specifically
in emergency situations.

Heretofore, most healthcare providers have a database that specifically refers to their own patients. Presently, there is not a pre-agreed national database recording system among the medical providers and health care industries to access patient information records in orderly and uniformly manner.

5 In recent years, U.S. government and healthcare industries have set national standards for electronic filing and the transactional exchange format for health care providers to improve the efficiency and the effectiveness of the health care system. The Health Insurance Portability and Accountability Act of 1996 (HIPAA) required the Sectary of Health and Human Services to adopt such standards in United States.

10 Other international countries also adopting such a standard for their healthcare system with respect to patient electronic files to overcome the problem as set forth. Adopting such national standards to work effectively require very well defined networking system in order to be used effectively and efficiently with highest file security in mind to preserve patient's right of privacy.

15 However, this invention, overcomes the shortcomings of the existing method and provides effective system aimed at service enhancement and patient satisfaction.

Summary of the Invention

It is an object of the present invention to provide consolidated medical information records to various healthcare providers such as hospitals, physicians, insurance

companies and individuals to improve the efficiency and the effectiveness of the health care system. The method of consolidated medical information records comprising a patient identification card in conjunction a card reader/writer which is capable of rewriting, updating and creating hyperlinks on the patient identification card for

5 locating and accessing detailed information of the patient in a patient's folder within a remote database. The card reader and writer can also access a remote database via its built in communication interface in conjunction with a remote networking system. Patient identification card is known as smart card and has capabilities to store data into the embedded memory chip. The information on this card can be access by a card

10 reader/writer device instantly and efficiently. Optionally, on the back of this card a magnetic strip included to be read by magnetic card reader in order to access the database information records.

In this method, program software will manage the collective data with regard to patient's information and encrypting it before sending it to a remote database via a

15 remote networking system. A remote central database, can be accessed by a software program in conjunction with a card reader and writer and a patient identification card to receive and manage the collective data and to disseminate specific data that relates to the patient's information records at the request of an authorized user via a remote network. After user receive the information, a decryption program automatically

decrypt the patient information file and may add other services that performed by health care provider to the records.

An authorized individual such as patient can also access his/her records as read only bases via a personal computer and Internet.

5 It is also an object of this invention to provide a handheld medical identification card reader/writer for paramedics to access the vital information in emergency situation and to be able to view the patients medical history records quickly as needed to save patient's life.

10 It is yet another object of this invention to create a patient's folder for each patient in central database. The patient's folder may include pages such as allergies, medications, immunization, surgeries, diagnosis, emergency contact, insurance, healthcare providers, patient's quick chart review, patient history chart review and other necessary information. The specific page in patient's folder can be access directly via card reader/writer's keypad. The patient's folder can provide a uniform information
15 system with regards to national standards in order to collect and manage patient data.

Further objects and advantages of this invention will become apparent from consideration of the drawings and description that follows.

Brief Description of the Drawings

Exemplary embodiments of the invention will now be described in conjunction

with the drawings in which:

FIG. 1 is a block diagram of the present invention showing consolidated medical information records system in conjunction with remote network, a central database, and on-line multi user.

5 FIG. 2A is a block diagram showing a patient identification card and a card reader/writer in remote connection with medical information records used in healthcare organizations such as hospital.

10 FIG. 2B is a block diagram showing a patient identification card and a card reader/writer in remote connection with medical information records used for healthcare provider such as physicians.

15 FIG. 3 is a block diagram showing the preferred embodiment of present invention in a hospital networking system.

 FIG. 3A is a block diagram illustrating the process of downloading the patient electronic file to central database via remote network.

20 FIG. 3B is a block diagram illustrating the process of uploading the patient electronic file from central database to user's computer via remote network.

 FIG. 4 is a front view of a patient identification card.

 FIG. 5 is a rear view of a patient identification card.

 FIG. 6 is a front view of a card reader with patient identification card.

FIG. 7 is a left side view thereof.

FIG. 8 is a similar view as FIG. 6 except the patient identification card swipe at the bottom.

FIG. 9 is a block diagram of medical card reader/writer in conjunction with patient identification card.

FIG. 10 is a sample page in database for recording patient personal information data.

FIG. 11 is a sample page in database for recording patient current medications data.

FIG. 12 is a sample page in database for recording Patient insurance information data.

FIG. 13 is a sample page in database for recording patient medical-hospital information data.

FIG. 14 is a sample page in database for recording patient healthcare provider data.

FIG. 15 is a sample page in database for recording patient allergies data.

FIG. 16 is a sample page in database for recording patient immunizations data.

FIG. 17 is a sample page in database for recording patient diagnoses data.

FIG. 18 is a sample page in database for recording patient emergency contact

data.

FIG. 19 is a sample page in database for recording patient updated information

data.

FIG. 20 is a sample page in database for recording patient surgical procedures

5 data.

Detailed Description of the Invention

FIG. 1 is showing an overall view of a remote network database system 100 to be used in providing consolidated medical information records from central database 160. This system includes authorized on-line multi users such as hospitals 120, physicians 150, pharmacies 151, paramedics 110, insurance companies 130 and individuals 140 to access patient's information records as often needed to provide healthcare for patients.

Authorized healthcare providers such as hospitals can instantly access the patient information records by inserting or swiping the patient identification card into a card reader/writer device 104. Then the card reader/writer device 104 can access patient history records in a secure database 168 via a remote network such as Internet 170. The extracted Information by the card reader/writer 104 can be viewed, modified and updated as needed. An authorized individual such as a patient can also access the information by using a personal computer 142 and Internet 170. However, individuals

need to go to the web site 162 and enter their authorization code 164 to access the information records as read basis only to follow up or check on the status of their information records.

5 A handheld card reader 102 can also be use to view the patient health records instantly. Paramedics 110 can access the information records very quickly either by using the patient card or by entering the patient account number.

Referring to FIG. 2A and 2B, the basic method of downloading and receiving patient's information to a medical card reader/writer 104 and a patient identification card 400 is illustrated. The card reader/writer 104 has a built in communication interface 201 such as cellular modem to access the patient's folder in a remote database 160 via a remote network 170. A software program in the card reader/writer 104 may also check hospitals and physicians records 120 and 150 to make sure their records are up to date with respect to patient's information records.

FIG. 3 is the preferred embodiment of present invention that is shown in conjunction with a hospital networking system 300. Hospital networking system can adopt a handheld card reader/writer 104 and connecting by a communication cable 304 to a computer 306. The handheld card reader/writer may have a cradle 302 to charge the handheld chargeable barriers. When a patient identification card 400 is inserted into the card reader/writer 104, the information on the card is accessed by the card

reader/writer and then transferred to the computer 306 via the communication cable 304. The computer displays the content of the patient I.D. card. Any new entry that is entered in the computer on behalf of the patient can be encrypted by a software application in the computer and stores it into a proxy web server 318 database and then it'll be uploaded to a central database 160 and stores in specific page of a patient's folder. All the electronic files that are saved in central database should comply with national standards.

FIG. 3A and 3B illustrate the uploading and downloading patient's electronic files within a remote database 160. In FIG. 3B, patient identification card 400 is inserted into the card reader/writer 104. However, the information on the card doesn't have the most recent information on the card. Therefore, the software application in the computer updates the information on the card by downloading the most recent file and displays it on the computer monitor after the program in the computer decrypted the patient's information file.

FIG. 4 and 5 showing a patient identification card that includes a memory chip known as smart chip with contact terminal 404, a photo / fingerprint I.D. 402, printed name 406 and an account number 408. On the other side of this card a magnetic strip 410 is placed. The information on this card can be accessed by a card reader 102 and a card reader/writer 104 as shown in FIG. 6-8. The patient identification card 400 can be

inserted in top slot 612 to be connected with a system bus in the card reader 102 or to swiped the card 400 in slot 614 for magnetic strip 410 to read the information on the card 400. The card reader 102 includes a keypad 602, quick access keys to direct patient information records 604 and a display screen 606. This card reader may provide two-way communications via cellular technology to transmit voice /fax and may have a speaker 618 and a microphone 610 to receive voice instructions. This device may also include speech recognition software to have the capabilities of voice authorization.

In FIG. 9 a card reader/writer is shown in block diagram 900 in conjunction with a patient I.D. card 400. The function of this unit is similar to a mini computer and includes a processor 910, a display screen 942, a display interface 912, a bridge 914, a system memory 916 and a system bus 924. System bus is also connected to ROM 918, mass storage 920, a keypad /keyboard 922 and the communication interface 926. The communication interface 926 in communication with a remote network 170 to access the information records in web server database. In order to access the information on the patient card and process the information using this card reader/writer 104 or card reader 102, an authorization code is required. The authorization code 934 along with a private key 936 is setup in ROM to ensure a secure and safe system.

FIG. 10-20 is illustrating sample pages in database for recording patient information records in a patient's folder. These sample pages are designed to bring

uniformity among healthcare providers and can be combined with illustrations, images, sound and video. For example the patient information records may include x-ray images, dental x-ray image, ultrasound images and etc.

While this invention is susceptible of embodiments in many different forms, this
5 specification and the accompanying drawings disclose only some specific forms as examples of the invention. The invention is not intended to be limited to the embodiments so described, however, the scope of the invention is pointed out in the appended claims.

ABSTRACT

A method for consolidating medical information records that can be access for viewing, storing, retrieving, disseminating and receiving patient medical data via a remote networking system and to be used by authorized multi-users such as hospitals, physicians, paramedics, pharmacies and insurance companies.

Healthcare providers are able to use patient identification card in conjunction with card reader/writer for accessing patient information records as often needed to provide healthcare services for the patient. Authorized individuals also can view the limited database information records via a personal computer and Internet.

I Claim:

1- A method for consolidating medical information records that can be access for viewing, storing, retrieving, disseminating and receiving patient medical data via a remote networking system and to be used by authorized multi-users,

5 comprising:

a patient identification card, said card includes at least one embedded memory chip for storage and recording limited patient's information onto said memory chip of said patient identification card;

10 a card reader and writer, said card reader and writer can access said memory chip to view said limited patient's information records on said patient identification card, and capable of rewriting, updating and creating hyperlinks on said patient identification card to locate and access detailed information of the patient in a remote database, said card reader and writer can access said remote database via its built in communication interface in conjunction with a remote networking
15 system;

means for managing detailed collective data with respect to said detailed patient's information and encrypting said collective data before sending said encrypted collective data to a remote database via said remote network; and,

a remote central database, said database remotely can be accessed by a software
20 program in conjunction with said card reader and writer and said patient

identification card to receive and manage said collective data and to disseminate specific data that relates to said patient's information records at the request of an authorized user via said remote network.

2- A method according to claim 1, wherein said patient identification card

5 furthermore may include magnetic strip on the back of said patient identification card.

3- A method according to claim 1, wherein said card reader and writer

10 furthermore can access said patient information card by swiping the magnetic strip on said patient identification card into the slot of said card reader and writer.

4- A method according to claim 1, wherein said card reader and writer

furthermore can access said patient information in said central database by entering patient's account number using said card reader and writer keypad.

5- A method according to claim 1, wherein said card reader and writer includes

15 direct access to patient's allergies page with respect to said patient's information records via said card reader and writer's keypad.

6- A method according to claim 1, wherein said card reader and writer includes

direct access to patient's personal information page with respect to said patient's information records via said card reader and writer's keypad.

7- A method according to claim 1, wherein said card reader and writer includes direct access to patient's current medications page with respect to said patient's information records via said card reader and writer's keypad.

8- A method according to claim 1, wherein said card reader and writer includes
5 direct access to patient's surgical procedures page with respect to said patient's information records via said card reader and writer's keypad.

9- A method according to claim 1, wherein said card reader and writer includes direct access to patient's diagnoses page with respect to said patient's information records via said card reader and writer's keypad.

10 10- A method according to claim 1, wherein said card reader and writer includes direct access to patient's emergency contact page with respect to said patient's information records via said card reader and writer's keypad.

11- A method according to claim 1, wherein said card reader and writer includes specific access to patient's insurance information page with respect to said
15 patient's information records via said card reader and writer's keypad.

12- A method according to claim 1, wherein said card reader and writer includes direct access to patient's immunizations page with respect to said patient's information records via said card reader and writer's keypad.

13- A method according to claim 1, wherein said card reader and writer includes

direct access to patient's healthcare provider page with respect to said patient's information records via said card reader and writer's keypad.

14- A method according to claim 1, wherein said card reader and writer includes direct access to patient's history page with respect to said patient's information records via said card reader and writer's keypad.

15- A method according to claim 1, wherein said card reader and writer includes direct access to patient's quick chart review page with respect to said patient's information records via said card reader and writer's keypad.

16- A method according to claim 1, wherein said communication interface in said card read and writer is cellular modem.

17- A method according to claim 1, wherein said card reader and writer furthermore has built in speaker to receive voice instruction.

18- A method according to claim 1, wherein said card reader and writer furthermore has speech recognition capabilities.

FIG. 1

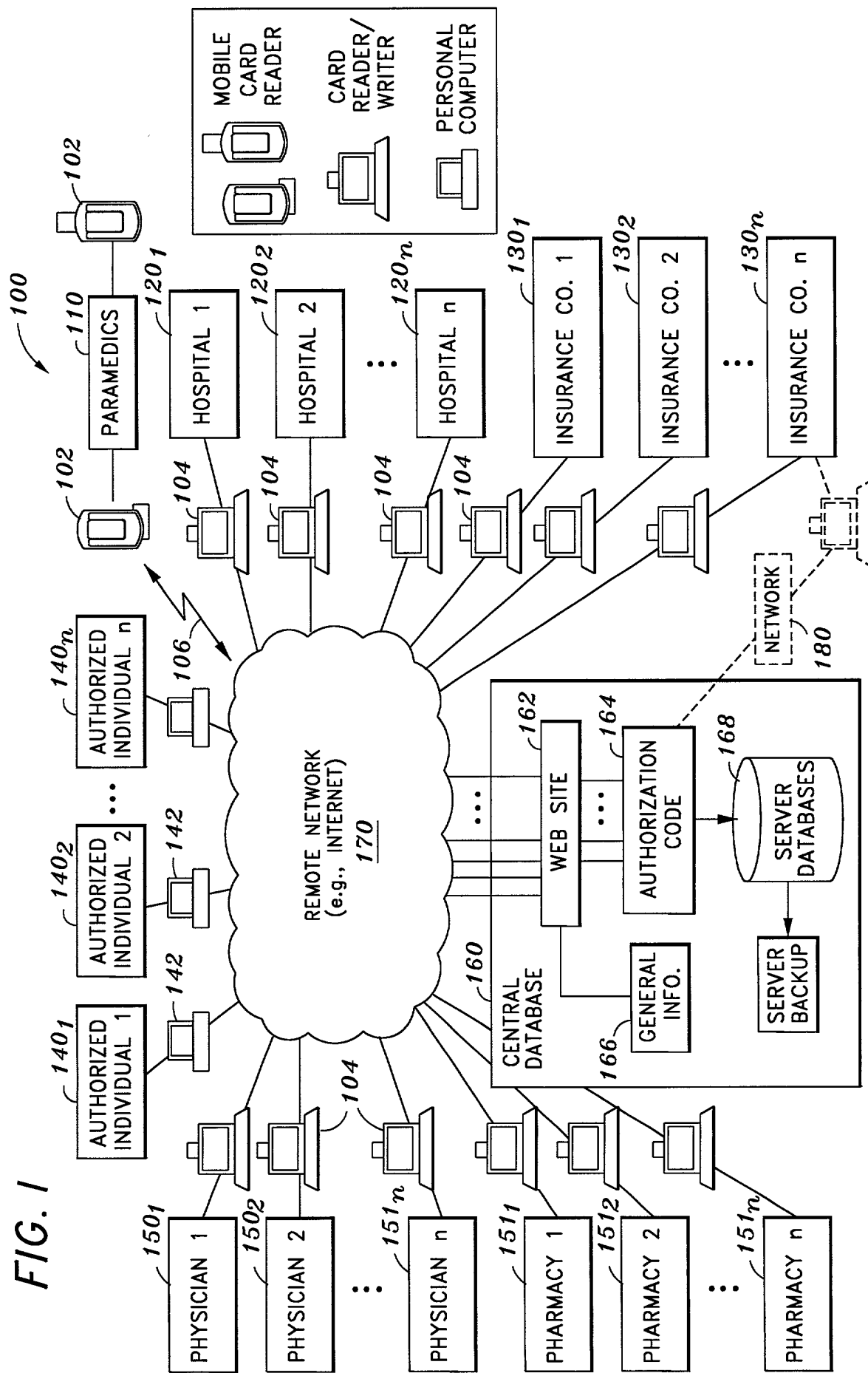


FIG. 2A

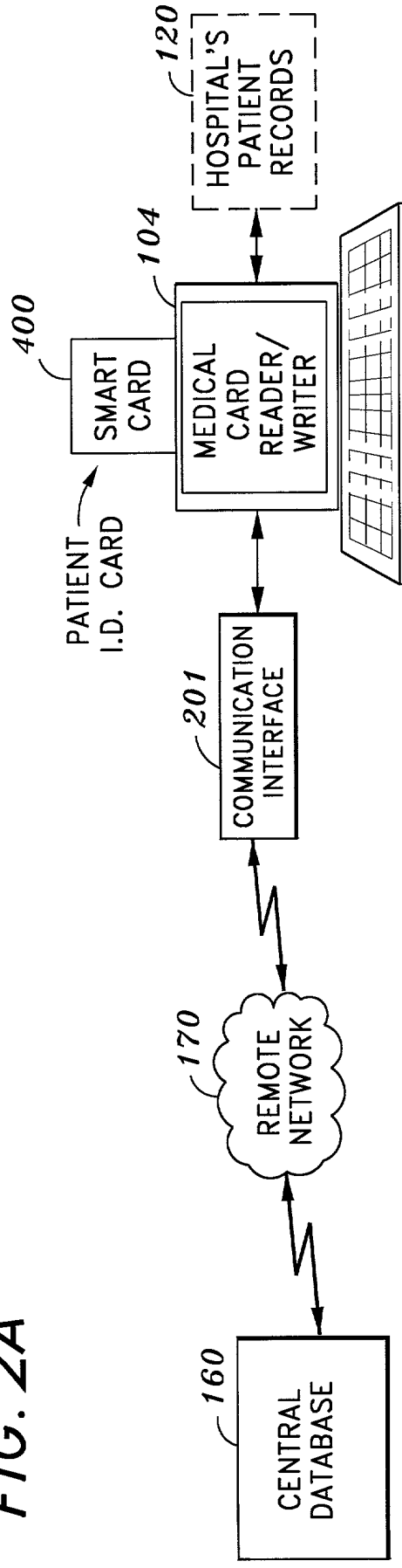
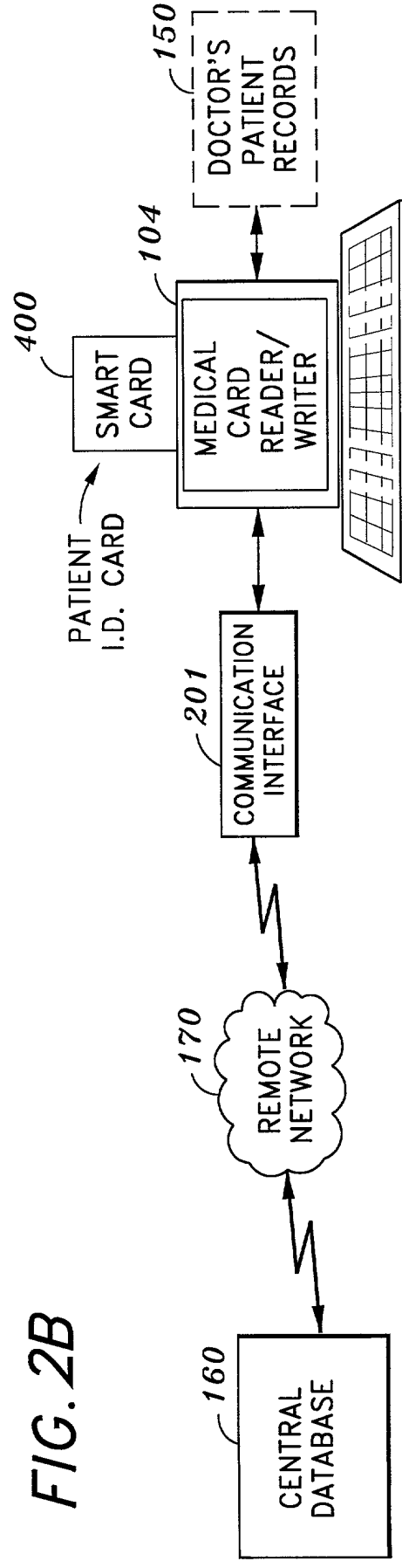


FIG. 2B



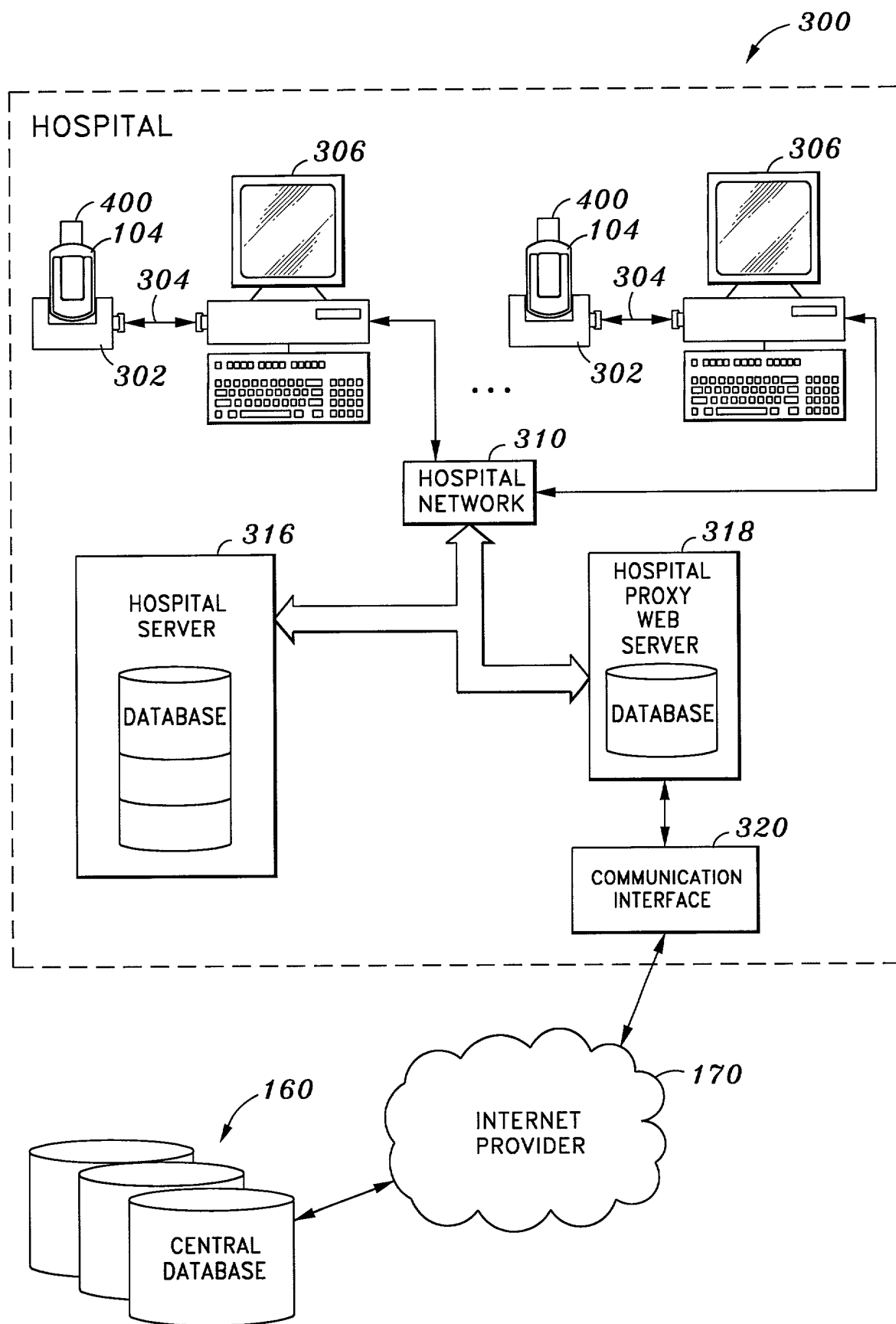


FIG. 3

SENDING UPDATED RECORDS (FILES) TO CENTRAL DATABASE

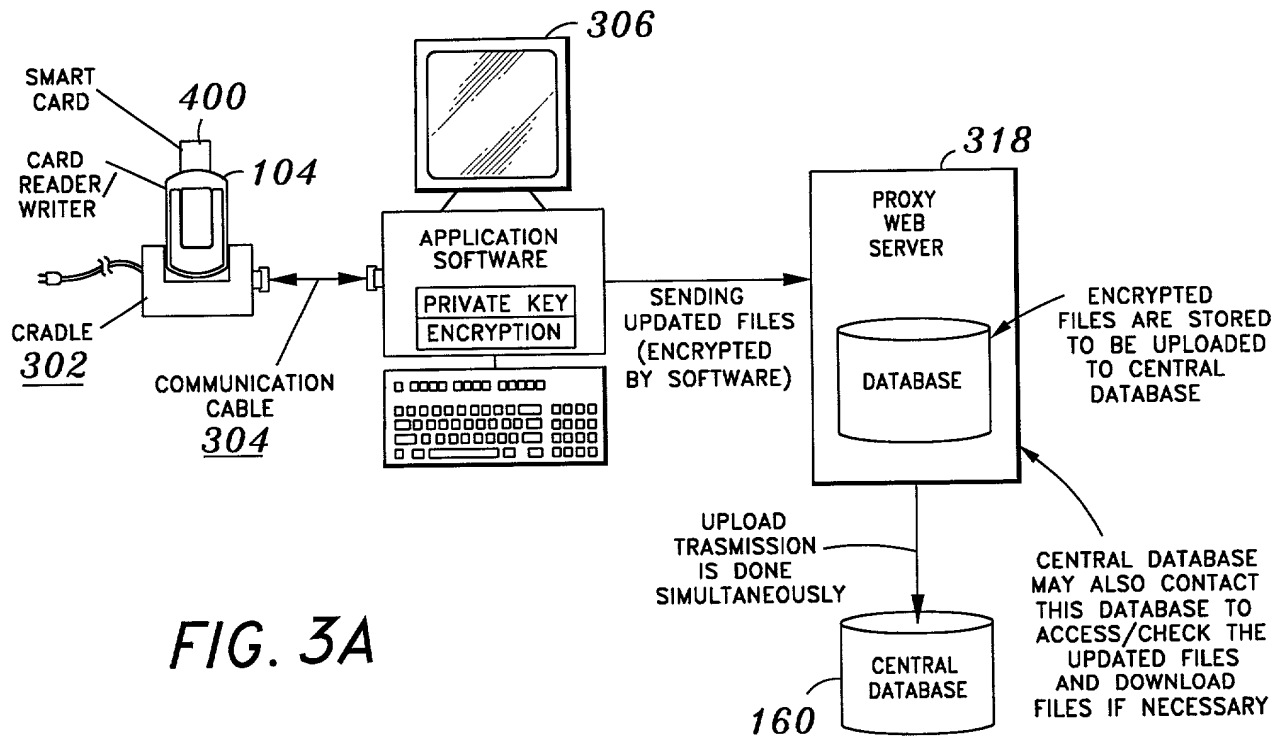


FIG. 3A

RECEIVING UPDATED RECORDS (FILES) FROM CENTRAL DATABASE AS NEEDED TO UPDATE PATIENT INFORMATION RECORDS

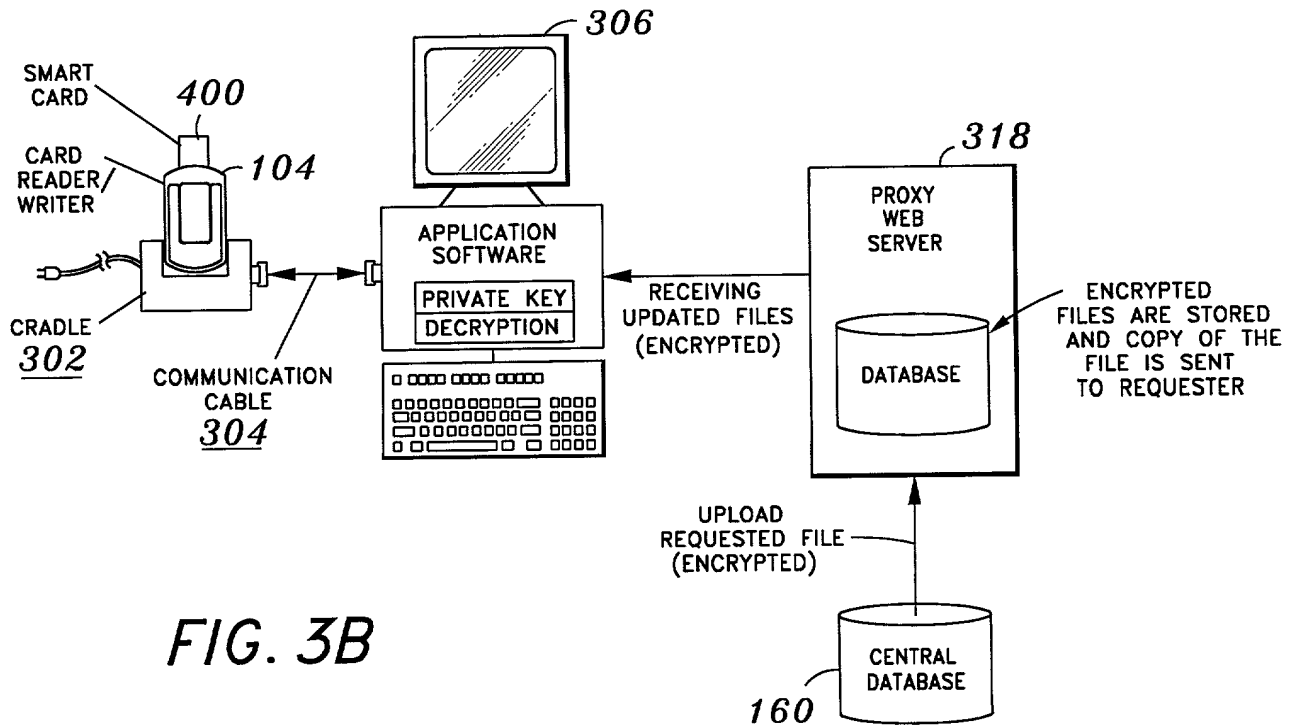


FIG. 3B

FIG. 4

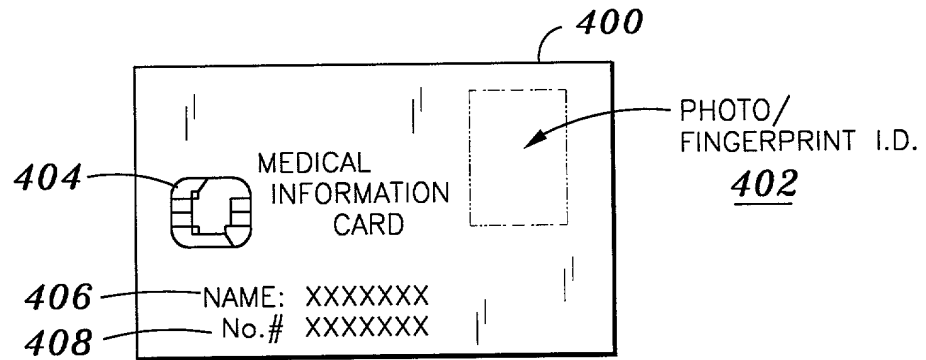


FIG. 5

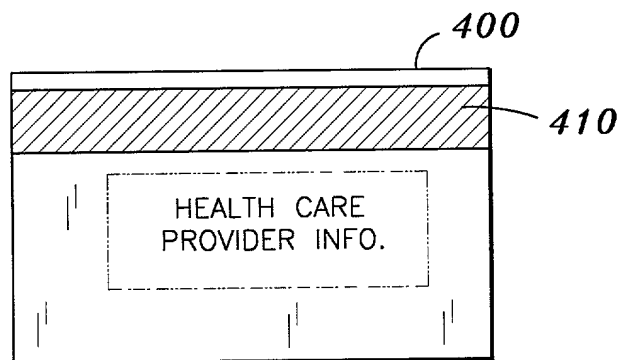


FIG. 6

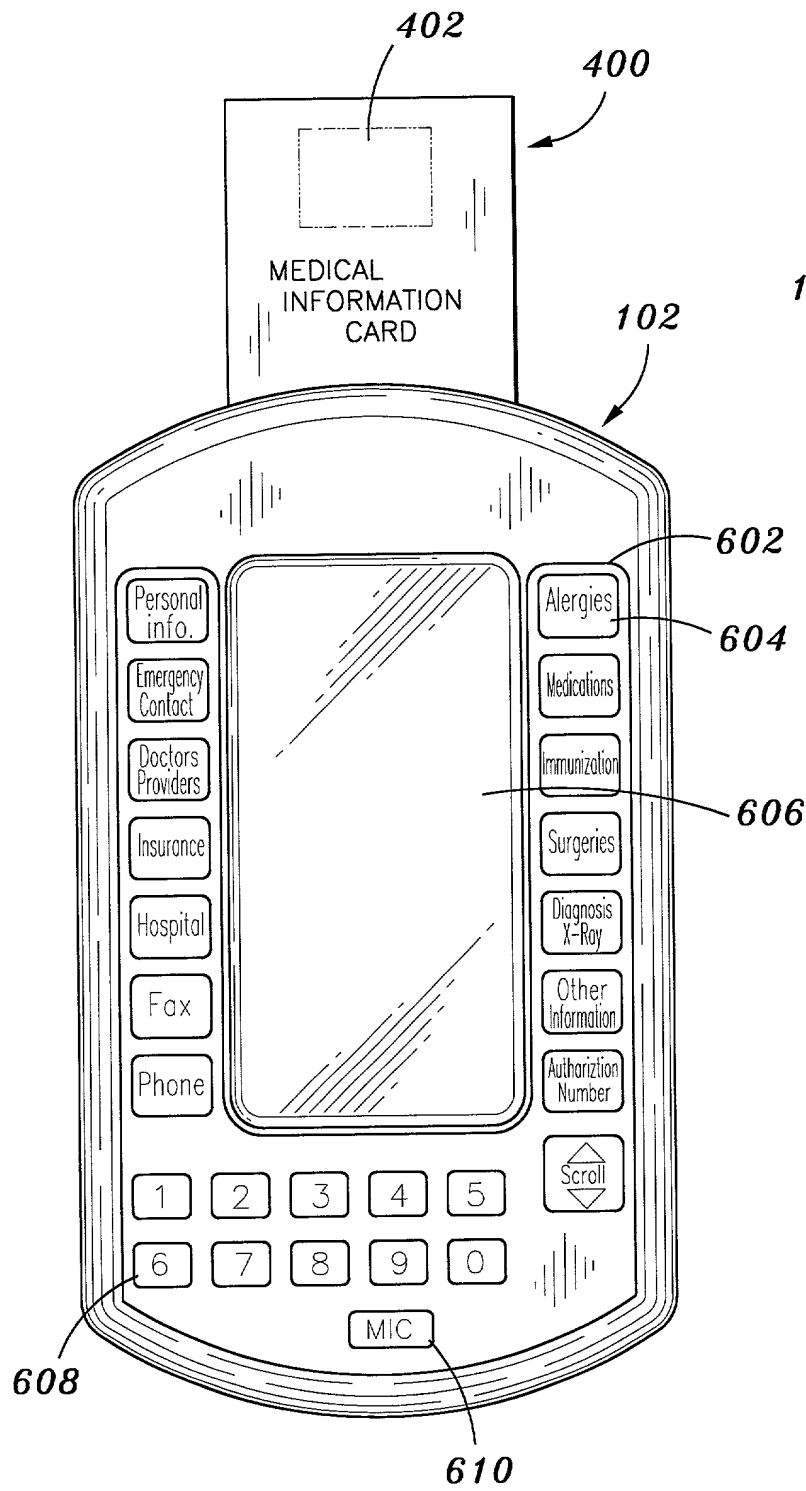


FIG. 7

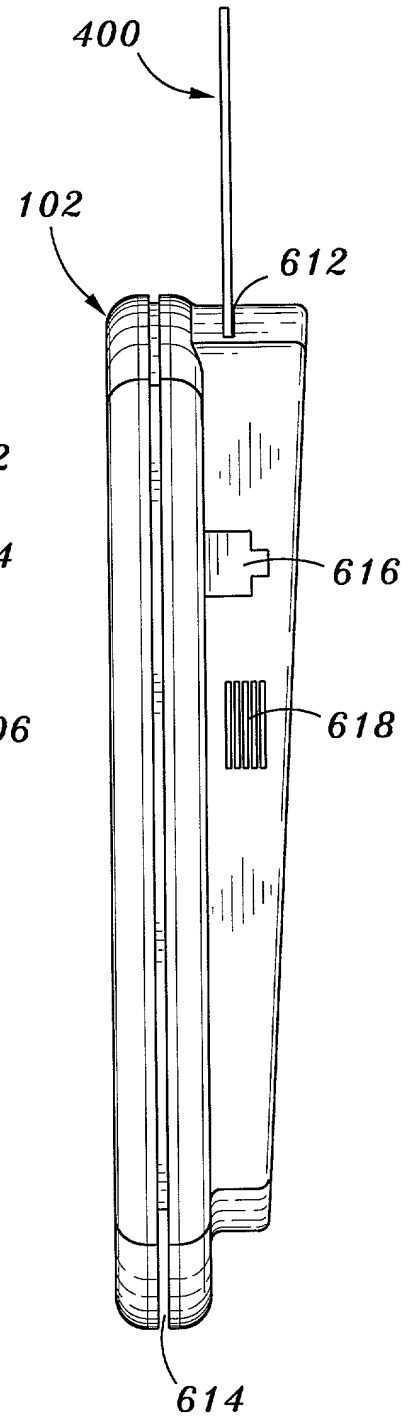
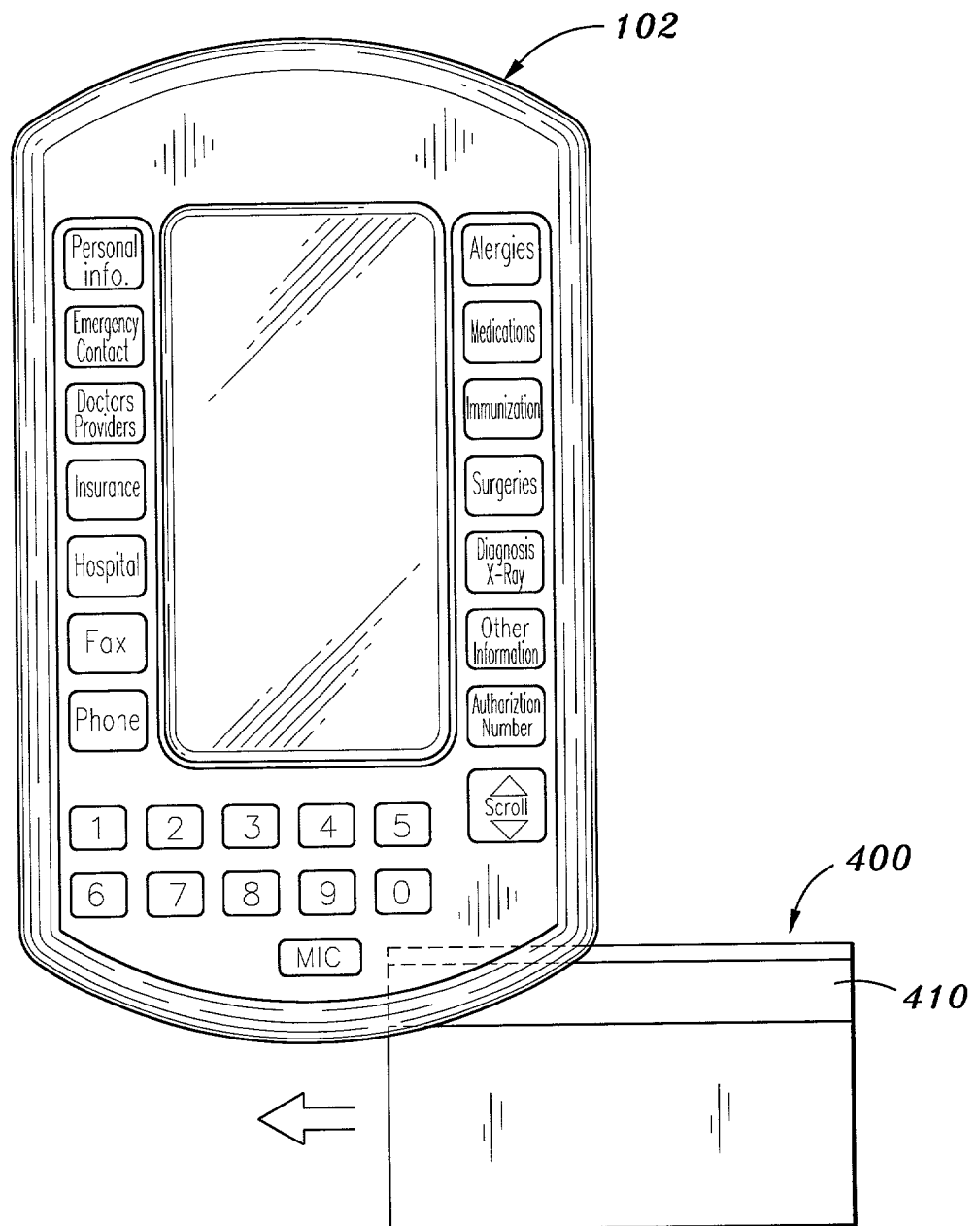


FIG. 8



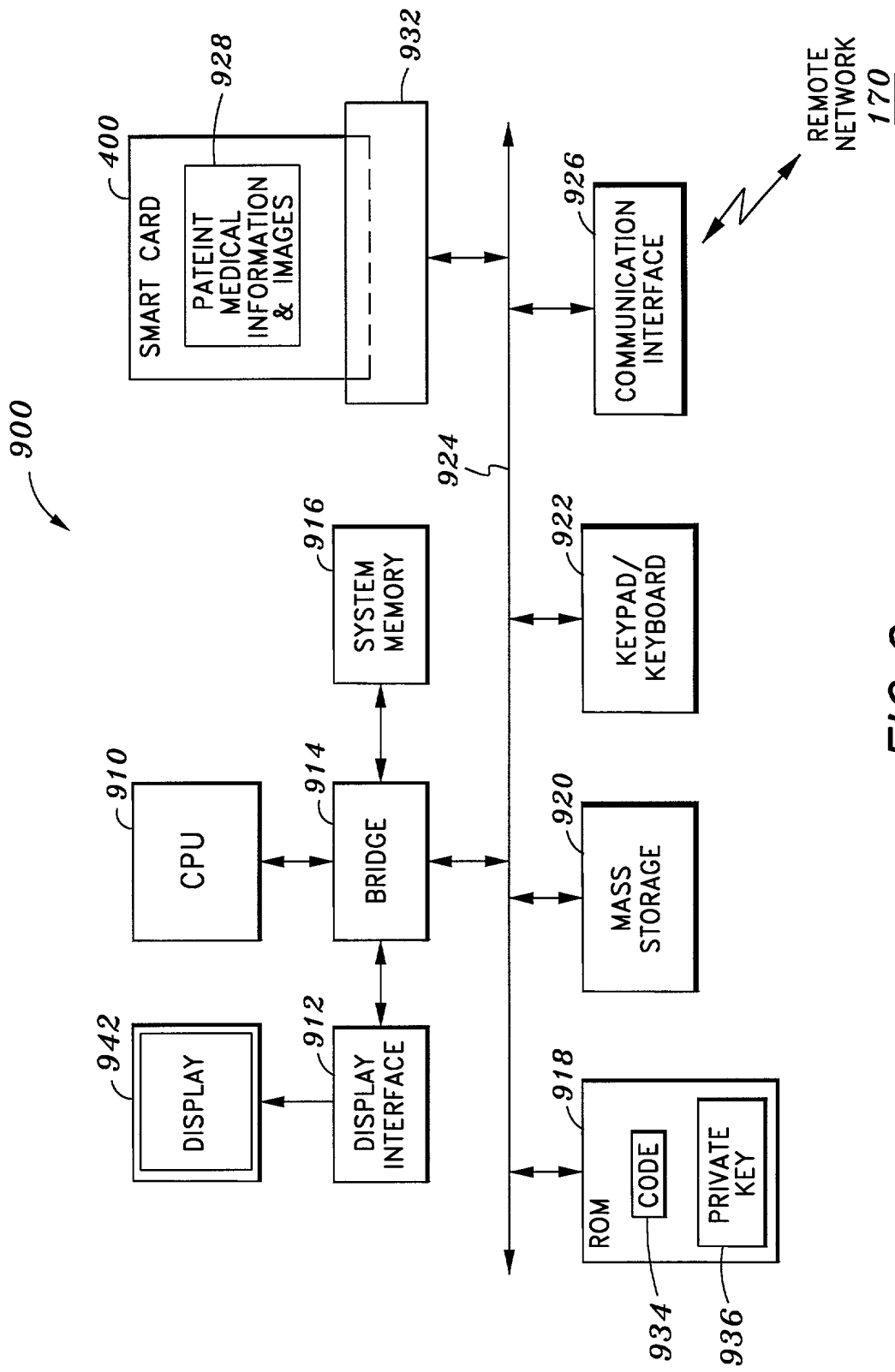


FIG. 9

Immunizations Insurance Information Updates

Diagnoses Surgical Procedures Current Medications Health Care Provider

Personal Information Emergency Contact Medical - Hospital Information Allergies

Last Name: First Name: Middle Initial:

Social Security Number: Date of Birth: Male ☐ Female ☐

Street Address:

City: State: Zip Code:

Home Phone: Work Phone:

FIG. 10

Personal Information Emergency Contact Medical - Hospital Information Allergies

Immunizations Insurance Information Updates

Diagnoses Surgical Procedures Current Medications Health Care Provider

Current Medications

Comments:

☐ Other Medications

Add Entry Edit Entry Delete Entry

FIG. 11

Diagnoses	Surgical Procedures	Current Medications	Health Care Provider
Personal Information	Emergency Contact	Medical - Hospital Information	Allergies
Immunizations	Insurance Information	Updates	

Primary Insurance			
Company Name		Policy Number	
Service Number		Phone	--
Address			
City		State	
Zip		Country	

Guarantor			
Policy Holder		SSN	--
Phone	--	Employer	

Secondary Insurance			
Company Name		Phone	--
Policy Number		Group Number	

FIG. 12

Immunizations	Insurance Information	Updates
Diagnoses	Surgical Procedures	Current Medications
Health Care Provider	Medical - Hospital Information	Allergies

Personal Information	Emergency Contact	Medical - Hospital Information	Allergies
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Hospital Reference	
Last Complete Examined	
Admission Date	11

Organ Donor	<input type="checkbox"/>	Blood Type	
Living Will	<input type="checkbox"/>	Comments	
Verified	<input type="checkbox"/>		

FIG. 13

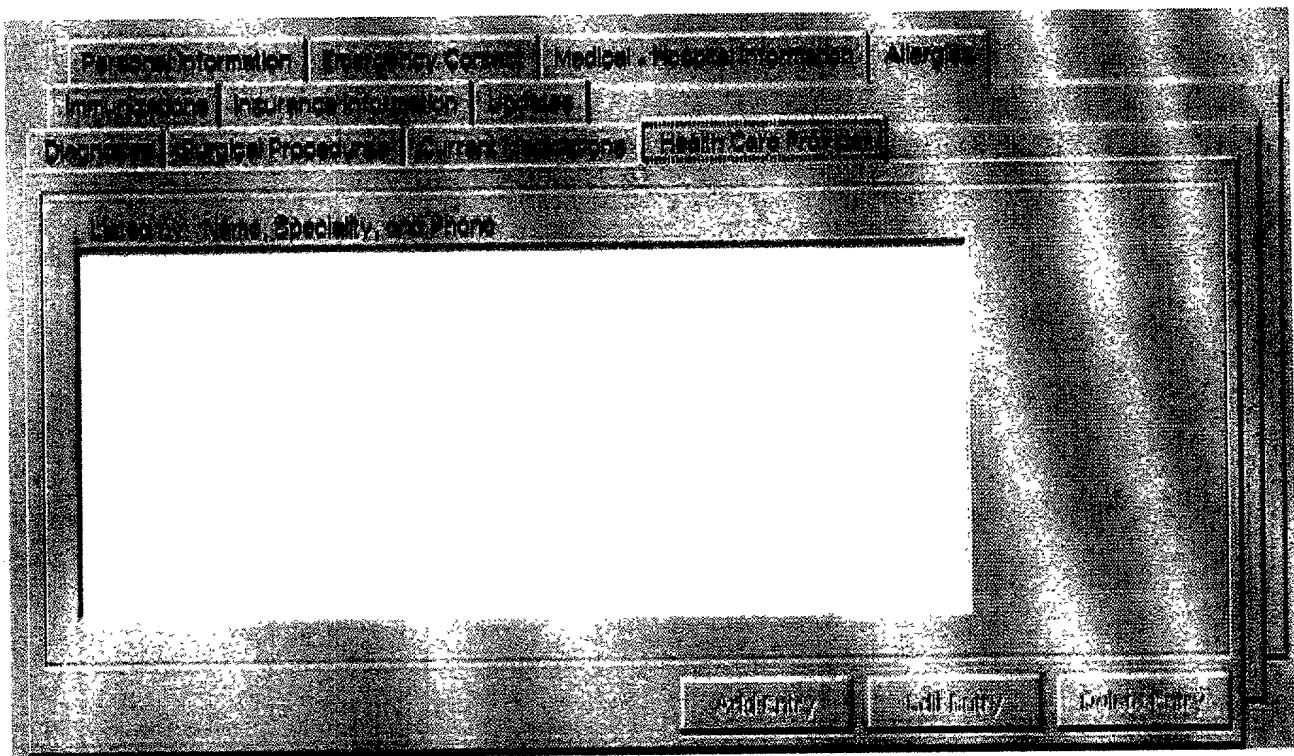


FIG. 14

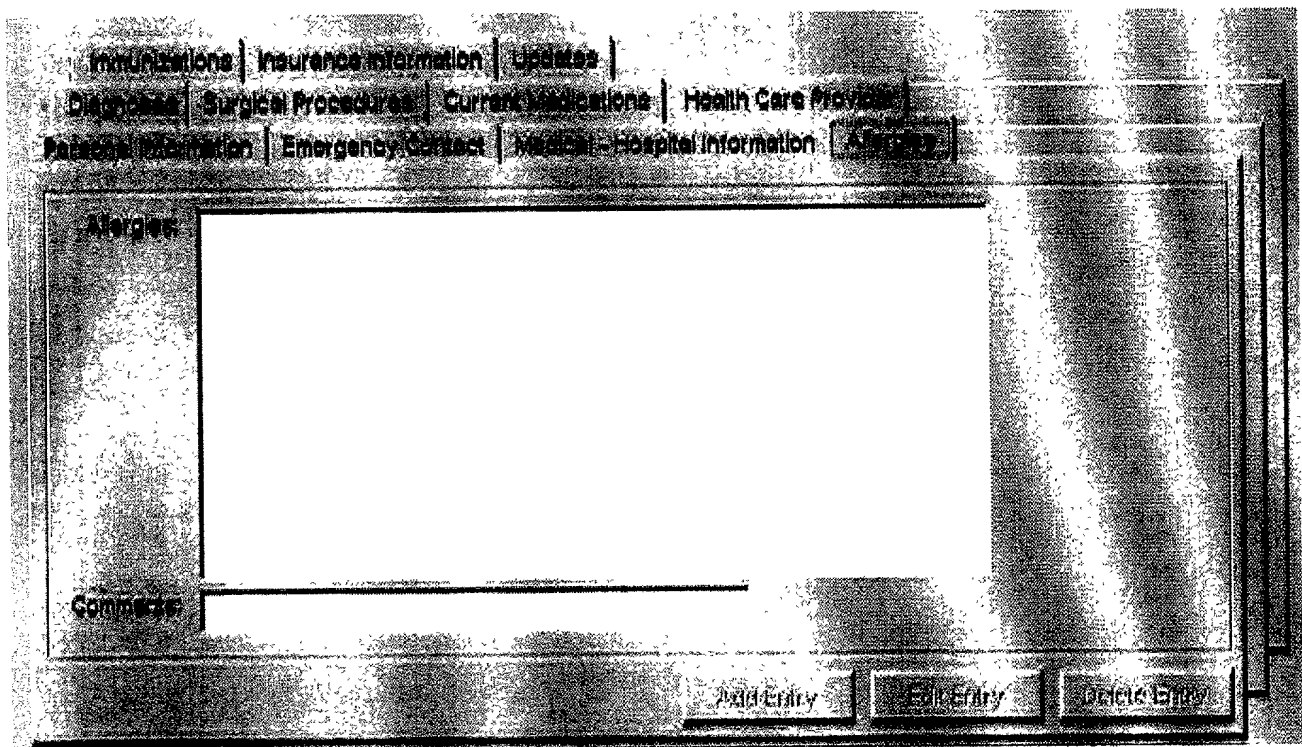


FIG. 15

Immunizations	Insurance Information	Updates
Diagnoses	Surgical Procedures	Current Medications
Health Care Provider	Personal Information	Emergency Contact
Medical History	Hospital Information	Allergies

Last Name:	<input type="text"/>	Middle Initial:	<input type="text"/>
First Name:	<input type="text"/>	Relationship:	<input type="text"/>

Home Phone:	<input type="text"/>	Work Phone:	<input type="text"/>
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Comments:	<input type="text"/>
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FIG. 18

Diagnoses	Surgical Procedures	Current Medications	Health Care Provider
Personal Information	Emergency Contact	Medical History	Hospital Information
Allergies	Immunizations	Insurance Information	Updates

<input type="radio"/> Included	Date Issued	<input type="text"/>
<input checked="" type="radio"/> Extra	Date Updated	<input type="text"/>

FIG. 19

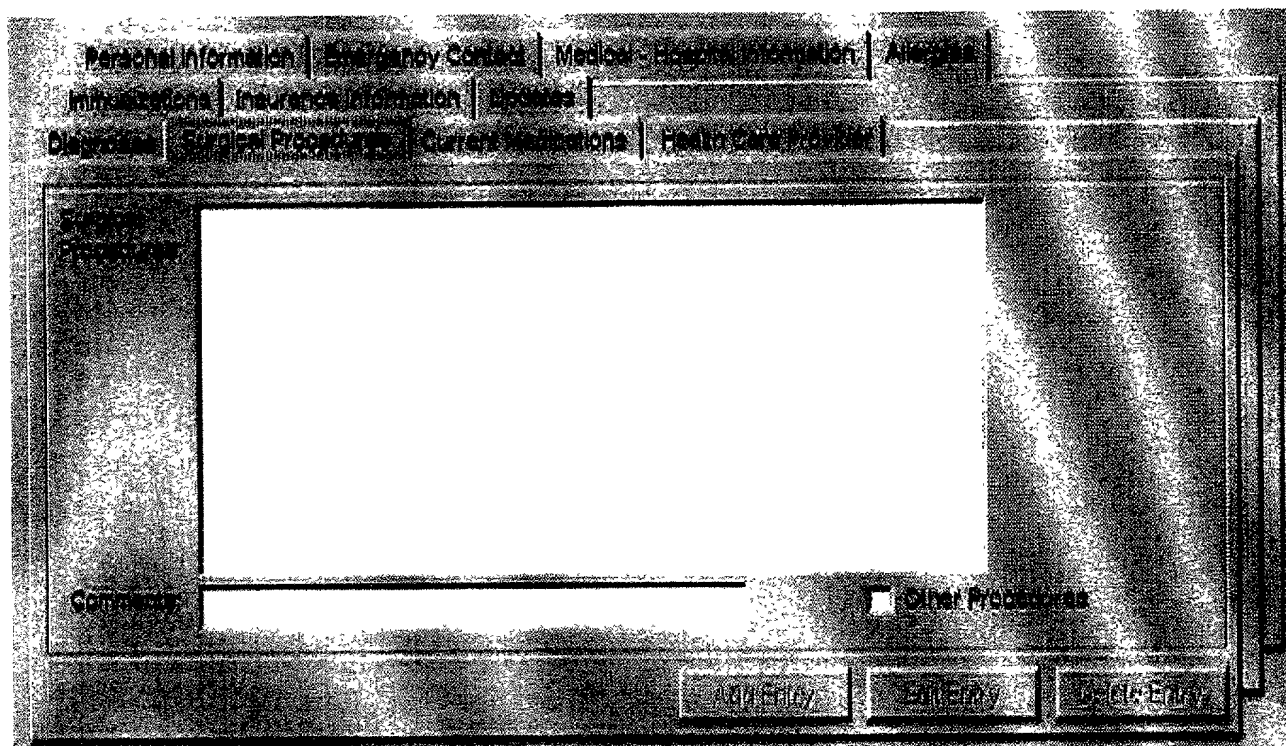


FIG. 20

Please type a plus sign (+) inside this box → + ;

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)	Attorney Docket Number		
	First Named Inventor		John Vanelli
	COMPLETE IF KNOWN		
	Application Number	/	
	Filing Date		
	Group Art Unit		
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing	OR	<input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Examiner Name

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

CONSOLIDATED MEDICAL INFORMATION RECORDS

the specification of which (Title of the Invention)

☒ is attached hereto
OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/167.640	11/29/99	

[Page 1 of 2]

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))	Family Name or Surname
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Inventor's Signature	<i>John Vanelli</i>	Date	10-25-2000
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☐ Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto